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NPIC/TSSG/DED-1630-69
28 May 1969

MEMORANDUM FOR: Chief, Applied Photo-Science Division, TSSG

SUBJECT: Request for Support

1. [redacted] is presently under contract to produce an Improved Rear Projection Screen Material. A number of sample screens have been produced and their characteristics measured. Although these measurements, in most cases, exceed those of the best commercially available rear projection screen material, a meaningful aid in evaluating the samples is considered to be subjective testing. A suitable subjective test routine is being designed by the Aerospace Group of [redacted] under the Imagery Interpretation Research Program.

2. Basically, the subjective testing will consist of random comparison of pairs of the sample screens as well as comparison of each of the sample screens with a Polacoat Type IS-75 screen. In addition, subjective evaluation of the resolution characteristics of the sample screens and the Polacoat Type IS-75 screen will be made.

3. Present plans call for starting these tests on 3 June 1969, with completion scheduled by 27 June 1969. Approximately 138 man-hours of testing, not necessarily consecutive, will be required. Of these 138 man-hours, 42 will be devoted to the resolution evaluation of the screens and 96 will be devoted to the subjective comparison of the screens. The proposed test vehicle is the [redacted] Film Viewer belonging to the Production Services Group and located in room 2N833. [redacted] personnel will conduct these tests.

4. APSP is requested to furnish the following specific support for these tests.

a. Three (3) men (2 1/3 days/man) to participate as subjects in the resolution evaluation portion of the tests. Ideally, these men should be experienced in reading Air Force Resolution Bar Targets and have a near acuity capability of about 14 inches, either natural or corrected (i.e., a capability of reading material held at a distance of 14 inches from the eye, wearing eyeglasses, if necessary).

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GROUP 1
Automatic
downgrading and
declassification

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b. Nine (9) scenes of high contrast imagery and nine (9) scenes of low contrast imagery (not necessarily the same scenes) in dupe positive form, suitable for use in the [] Film Viewer. (The NPIC Equipment Summary, 1967 notes that this Viewer will handle 35mm through 9.5 inch wide film.) This imagery will be used in the subjective comparison portion of the tests, for which IEG will furnish the necessary personnel.

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5. The DED Project Officer for these tests is [] telephone extension []

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6. For information, preliminary coordination with APSD for these men/materials has been conducted with []

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[]
Chief, Development & Engineering Division, TSSG

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